

| FROM                      | WIRE SIZE (AWG)            | MAX DISTANCE (FT) | 10                      |
|---------------------------|----------------------------|-------------------|-------------------------|
|                           | IF USING ATON POWER SUPPLY | ER SUPPLY         |                         |
| 120VAC BREAKER, LINE      | 12                         |                   | HW ATON PWR SPLY, PIN C |
| 120VAC, NEUTRAL BUS       | 12                         |                   | HW ATON PWR SPLY, PIN B |
| 120VAC, GROUND BUS        | 12                         |                   | HW ATON PWR SPLY, PIN A |
| HW ATON PWR SPLY, PIN A   | 10                         | 10                | RANGE LT, CG-181 (+)    |
| HW ATON PWR SPLY, PIN B   | 10                         | 10                | RANGE LT, CG-181 (-)    |
| RANGE LT, CG-181 (F)      | 12                         |                   | RANGE LT, CG-6P (F)     |
| RANGE LT, CG-181 (L)      | 12                         |                   | RANGE LT, CG-6P (L)     |
| RANGE LT, CG-181 (-)      | 12                         |                   | RANGE LT, CG-6P (-)     |
|                           | IF USING BATTERY CHARGER   | HARGER            |                         |
| 120VAC, BREAKER, LINE     | 12                         |                   | BATT CHRGR, LINE IN     |
| 120VAC, NEUTRAL BUS       | 12                         |                   | BATT CHRGR, NEUTRAL IN  |
| 120VAC, GROUND BUS        | 12                         |                   | BATT CHRGR, CASE GRND   |
| ED 240 NICAD BATT (+)     | 10                         |                   | BATTERY CHARGER (+)     |
| ED 240 NICAD BATT (-)     | 10                         |                   | BATTERY CHARGER (-)     |
| BATT CHRGR, 12VDC (+) OUT | 10                         | 10                | RANGE LT, CG-181 (+)    |
| BATT CHRGR, 12VDC (-) OUT | 10                         | 10                | RANGE LT, CG-181 (-)    |
| RANGE LT, CG-181 (F)      | 12                         |                   | RANGE LT, CG-6P (F)     |
| RANGE LT, CG-181 (L)      | 12                         |                   | RANGE LT, CG-6P (L)     |

|                       | BILL OF MATERIALS | RIALS            |          |
|-----------------------|-------------------|------------------|----------|
| ITEM                  | ТҮРЕ              | SOURCE OF SUPPLY | QUANTITY |
| HW ATON POWER SUPPLY  | 12VDC, 25A        | CG-432           | 1        |
| 12VDC BATTERY, NICAD  | ED 240            | SAFT             | 10 CELLS |
| 12VDC BATTERY CHARGER | SCBF100-12-25     | CG-432           | 1        |
| RANGE LT, RL-14       | CARLISLE & FINCH  | ELC              | 1        |
| 12VDC FLASHER         | CG-493            | ELC              | 1        |
| 12VDC LAMPCHANGER     | CG-6P             | ELC              | 1        |
| LAMPS                 | 12VDC, 1.9A       | ELC              | 6        |
|                       |                   |                  |          |

|                       |          |                  | '     |      |                  |                       |
|-----------------------|----------|------------------|-------|------|------------------|-----------------------|
|                       |          | APPR.            | DATE  | REV. |                  |                       |
| ADDED BATTERY/BATTER) | ADDED BA | SW 8             | 04/06 | >    |                  |                       |
|                       | -        | -                | -     | -    |                  |                       |
| 6                     |          | 툿                |       |      | 12VDC, 1.9A      | LAMPS                 |
|                       |          | 문                |       |      | CG-6P            | 12VDC LAMPCHANGER     |
| _                     |          | 툿                |       |      | CG-493           | 12VDC FLASHER         |
|                       |          | 툿                |       |      | CARLISLE & FINCH | RANGE LT, RL-14       |
| _                     |          | CG-432           |       |      | SCBF100-12-25    | 12VDC BATTERY CHARGER |
| 10 CELL:              |          | SAFT             |       |      | ED 240           | 12VDC BATTERY, NICAD  |
| 1                     |          | CG-432           |       |      | 12VDC, 25A       | HW ATON POWER SUPPLY  |
| TITNAUG               | PPLY     | SOURCE OF SUPPLY | SOURC |      | ТҮРЕ             | ITEM                  |

## **AC POWER SOURCE**

PLOTTING SCALE:

## NOTES:

- 1. INSTALL HW ATON POWER SUPPLY OR NICAD BATTERY/BATTERYCHARGER AS CLOSE TO RAINGE LIGHTS
  AS POSSIBLE OR USE LOW VOLTAGE DROP HIT SUCH THAT DC VOLTAGE DROP DOES NOT EXCEED 0.3 VOLT.
  2. CONNECTORS PROVIDED WITH POWER SUPPLY ARE MADE UP WITH 10' PRITAILS.
  3. RAINGE LANTERN, BEAM WIDTH, AND LAMPS DETERMINED BY INTENSITIES RECOMMENDED
  BY THE RAINGE DESIGN PROGRAM.
  4. USE ED-400 IF GREATER AUTONOMY IS NEEDED.
  USE DAYLIGHT CONTROL FOR NIGHTTIME ONLY OPERATION.

|             |                                               |                             |                                    |                  |              |         |               |                         |                          |               |                            |          |                   |        |                  |             |                                                   | _ |
|-------------|-----------------------------------------------|-----------------------------|------------------------------------|------------------|--------------|---------|---------------|-------------------------|--------------------------|---------------|----------------------------|----------|-------------------|--------|------------------|-------------|---------------------------------------------------|---|
|             | TOLE D                                        | WIE                         |                                    |                  | REVIEWED BY: | 6-      |               | REVIEWED BY:            | 6.5                      | H.R.O         | REVIEWED BY:               | CHECKED: | TRACED:           | DRAWN: | DESIGNED:        | REV.        | A                                                 |   |
|             | ALL DIMENSIONS ARE IN INCHES TOLERANCES: DIM. | UNLESS OTHERWISE SPECIFIED: |                                    |                  | BY:          | 6-SEC-2 | R.J.LEGIER    | BY:                     | G-SEC-2A                 | H.R.CLEVELAND | BY:                        |          |                   |        |                  | DATE        | 04/06 SW                                          |   |
| ANG.        | JS ARE IN                                     | RWISE SI                    |                                    |                  |              |         |               |                         |                          |               |                            | ле       |                   | NTS    | NIS              | APPR.       | SW                                                |   |
| SCALE: NONE | INCHES.                                       | ECIFIED:                    | CHIEF, OFFICE OF CIVIL ENGINEERING | CAPT. J.A. RAUCH | APPROVED:    |         | 12VDC SIGNALS | (RANGE CATEGORY C = 24) | COMMERCIAL 24 NOON RANGE |               | STANDARD AID TO NAVIGATION |          | CIVIL ENGINEERING |        | U.S. COAST GUARD | DESCRIPTION | ADDED BATTERY/BATTERY CHARGER POWER CONFIGURATION |   |
| SHEET       | 130507                                        | DRAWING NUMBER              |                                    |                  |              |         | ,             | •                       | NGE                      |               | CN                         |          |                   |        | #                |             | ER CONFIGUR                                       |   |
| SHEET OF    | _                                             |                             | L                                  |                  | DATE         |         |               |                         |                          |               |                            |          |                   | •      | HEADOUARTERS     |             | ATION                                             |   |
| •           |                                               | $\frac{1}{2}$               |                                    | 5/24/99          |              |         |               |                         |                          |               |                            |          |                   |        | ?TERS            |             |                                                   |   |
|             | ļ                                             | PEV                         |                                    |                  |              |         |               |                         |                          |               |                            |          |                   |        |                  | ВҮ          | KMD                                               |   |